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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/578,204

05/04/2006

Jeroen Gijzen

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS

P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER

CARTER, WILLIAM JOSEPH

ART UNIT

PAPER NUMBER

2875

MAIL DATE

DELIVERY MODE

11/01/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/578,204

Applicant(s)

GIJZEN ET AL.

Examiner

William J. Carter

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 May 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 5/4/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9 and 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basey (2002/0141188) in view of Takahashi et al. (6,227,686).

With respect to claims 1 and 5, Basey teaches a lamp assembly (10), comprising: a reflector (12) having an opening defined by an upper rim and a concave reflective surface surrounded by the upper rim (Fig. 4); an illumination element (34) mounted within the opening of the reflector (Fig. 4); an air guide conduit (14) extending around the upper rim of the reflector (Fig. 4), the air guide conduit having an air inlet (left side of items 28 in Fig. 4) and having an air outlet (right side of items 28 in Fig. 4) into the opening of the reflector (Fig. 4); and a blower (paragraph 12) to the air inlet of the air guide conduit (paragraph 12 and Fig. 4). Basey does not explicitly teach the blower operatively connected to the air inlet and the concave reflective surface defines a parabolic or elliptical opening in the reflector. Takahashi, also drawn to lamp assemblies, teaches a blower (6) operatively connected to the air inlet (Fig. 1) and the concave reflective surface defines a parabolic or elliptical opening in the reflector (column 2, lines 24-29). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to use the blower and reflector of Takahashi in the lamp

assembly of Basey, in order to provide a lamp assembly that can reduce the risk of rupture of the illumination element and degradation of light emitting property and can safely be replaced even if the illumination element is ruptured (column 1, lines 36-40).

As for claim 2, Basey teaches the air outlet (right side of items 28 in Fig. 4) of the air guide conduit (14) is adjacent an inner periphery of the upper rim of the reflector (Fig. 4).

As for claim 3, Basey teaches the air outlet (right side of items 28 in Fig. 4) extends circumferentially adjacent the inner periphery of the upper rim of the reflector (Fig. 4).

As for claim 4, Basey teaches the air guide conduit (14) includes an inner side wall extending adjacent to and spaced from an inner periphery of the upper rim of the reflector (Fig. 4), and wherein the air outlet is defined between the upper rim of the reflector and the inner side wall of the air guide conduit (Fig. 4).

As for claim 6, Basey teaches the air guide conduit (14) circumferentially overlaps the opening in the reflector (Fig. 4).

As for claim 7, Basey teaches the air outlet (right side of items 28) is located at the circumferential overlap between the air guide conduit and the opening in the reflector (Fig. 4).

As for claim 8, Basey teaches the opening in the reflector faces towards an optical modulator of a projection display device (paragraph 12).

As for claim 9, Basey teaches the air guide conduit (14) comprises an outer wall (20 and 22) extending circumferentially around an outer periphery of the upper rim of

the reflector (Fig. 4), and an inner side wall (24 and 26) extending circumferentially around an inner periphery of the upper rim of the reflector (Fig. 4).

As for claim 11, Basey further teaches the cooling means (paragraph 12) introduces a vortex tangentially into the opening such that the vortex travels down the concave reflective surface of the reflector (Fig. 4).

As for claim 12, Basey teaches the illumination element (34) is coaxially mounted within the opening of the reflector (Fig. 4), and wherein said cooling means (paragraph 12) introduces the vortex into the opening such that the vortex is reflected from a bottom of the concave reflective surface back towards the upper rim of the reflector (Fig. 4).

As for claims 13-15, Basey further teaches cooling means (paragraph 12) introduces the vortex into the opening such that the portion of the vortex which is reflected back towards the upper rim is coaxially contained within the portion of the vortex which travels down the concave reflective surface of the reflector (Fig. 4).

As for claims 16-20, Basey and Takahashi teaches all of the disclosed elements, as discussed above, thus the method is inherently taught.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Basey and Takahashi as applied to claim 9 above, and further in view of Glowach, SR. et al. (2001/0030865).

With respect to claim 10, Basey and Takahashi teach all of the claimed element, as discussed above, except for explicitly teaching an inner side wall partially extends into the opening and is spaced from the inner periphery of the upper rim to define the air outlet there between. Glowach, also drawn to lamp assemblies, teaches an inner side

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wall (47) partially extends into an opening (Fig. 3) and is spaced from the inner periphery of the upper rim to define the air outlet there between (Fig. 3). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to use the inner wall orientation of Glowach in the lamp assembly of Basey, in order to assist in directing air to the face of the lamp (paragraph 34).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Carter whose telephone number is (571)272-0959. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea can be reached on (571)272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wjc
10/24/07

/Ali Alavi/
Primary Examiner